



00229806  
SEQUENCE LISTING

<110> DECKWER, WOLF-DIETER  
MUELLER, ROLF-JOACHIM  
KLEEBERG, ILONA  
VAN DEN HEUVEL, JOOP

<120> ESTER-GROUP-CLEAVING ENZYME FROM THERMOMONOSPORA FUSCA

<130> 930008-2069

<140> 10/089,392

<141> 2002-07-10

<150> PCT/EP00/07115

<151> 2000-07-25

<160> 3

<170> PatentIn Ver. 3.2

<210> 1

<211> 261

<212> PRT

<213> Thermomonospora fusca

<400> 1

Ala Asn Pro Tyr Glu Arg Gly Pro Asn Pro Thr Asp Ala Leu Leu Glu  
1 5 10 15  
Ala Ser Ser Gly Pro Phe Ser Val Ser Glu Glu Asn Val Ser Arg Leu  
20 25 30  
Ser Ala Ser Gly Phe Gly Gly Gly Thr Ile Tyr Tyr Pro Arg Glu Asn  
35 40 45  
Asn Thr Tyr Gly Ala Val Ala Ile Ser Pro Gly Tyr Thr Gly Thr Glu  
50 55 60  
Ala Ser Ile Ala Trp Leu Gly Glu Arg Ile Ala Ser His Gly Phe Val  
65 70 75 80  
Val Ile Thr Ile Asp Thr Ile Thr Thr Leu Asp Gln Pro Asp Ser Arg  
85 90 95  
Ala Glu Gln Leu Asn Ala Ala Leu Asn His Met Ile Asn Arg Ala Ser  
100 105 110  
Ser Thr Val Arg Ser Arg Ile Asp Ser Ser Arg Leu Ala Val Met Gly  
115 120 125  
His Ser Met Gly Gly Gly Gly Thr Leu Arg Leu Ala Ser Gln Arg Pro  
130 135 140  
Asp Leu Lys Ala Ala Ile Pro Leu Thr Pro Trp His Leu Asn Lys Asn  
145 150 155 160  
Trp Ser Ser Val Thr Val Pro Thr Leu Ile Ile Gly Ala Asp Leu Asp  
165 170 175  
Thr Ile Ala Pro Val Ala Thr His Ala Lys Pro Phe Tyr Asn Ser Leu  
180 185 190

00229806

Pro Ser Ser Ile Ser Lys Ala Tyr Leu Glu Leu Asp Gly Ala Thr His  
 195 200 205  
 Phe Ala Pro Asn Ile Pro Asn Lys Ile Ile Gly Lys Tyr Ser Val Ala  
 210 215 220  
 Trp Leu Lys Arg Phe Val Asp Asn Asp Thr Arg Tyr Thr Gln Phe Leu  
 225 230 235 240  
 Cys Pro Gly Pro Arg Asp Gly Leu Phe Gly Glu Val Glu Glu Tyr Arg  
 245 250 255  
 Ser Thr Cys Pro Phe  
 260

<210> 2  
 <211> 261  
 <212> PRT  
 <213> Streptomyces albus

<400> 2

Asp Asn Pro Tyr Glu Arg Gly Pro Ala Pro Thr Arg Ala Ser Ile Glu  
 1 5 10 15  
 Ala Pro Arg Gly Pro Tyr Ala Val Ser Gln Thr Ser Val Ser Ser Leu  
 20 25 30  
 Val Val Ser Gly Phe Gly Gly Gly Thr Ile Tyr Tyr Pro Thr Ser Thr  
 35 40 45  
 Gly Asp Gly Thr Phe Gly Ala Val Val Val Thr Pro Gly Phe Thr Ala  
 50 55 60  
 Thr Glu Ser Ser Met Ala Trp Leu Gly Pro Arg Leu Ala Ser Gln Gly  
 65 70 75 80  
 Phe Val Val Phe Thr Ile Asp Thr Leu Thr Thr Leu Asp Gln Pro Asp  
 85 90 95  
 Ser Arg Gly Arg Gln Met Leu Ala Ala Leu Asp Tyr Leu Thr Glu Arg  
 100 105 110  
 Ser Ser Ala Arg Thr Arg Ile Asp Gly Thr Arg Leu Gly Val Ile Gly  
 115 120 125  
 His Ser Met Gly Gly Gly Gly Thr Leu Glu Ala Ala Lys Ser Arg Pro  
 130 135 140  
 Ser Leu Lys Ala Ala Ile Pro Leu Thr Pro Trp Asn Leu Asp Lys Thr  
 145 150 155 160  
 Trp Pro Glu Val Thr Thr Pro Thr Leu Val Val Gly Ala Asp Gly Asp  
 165 170 175  
 Thr Val Ala Pro Val Ala Thr His Ala Lys Pro Phe Tyr Ser Ser Leu  
 180 185 190  
 Pro Ser Ser Thr Asp Arg Ala Tyr Leu Glu Leu Asn Asn Ala Thr His  
 195 200 205  
 Phe Ala Pro Asn Leu Ser Asn Thr Thr Ile Ala Lys Tyr Ser Val Ser  
 Page 2

00229806

210

215

220

Trp Leu Lys Arg Phe Ile Asp Asp Asp Thr Arg Tyr Glu Gln Phe Leu  
 225 230 235 240  
 Cys Pro Leu Pro Val Pro Asp Arg Asp Ile Glu Glu Tyr Arg Gly Thr  
 245 250 255  
 Cys Pro Leu Gly Gly  
 260

<210> 3  
 <211> 261  
 <212> PRT  
 <213> Streptomyces sp. M11

<400> 3

Ala Asn Pro Tyr Glu Arg Gly Pro Ala Pro Thr Asn Ala Ser Ile Glu  
 1 5 10 15  
 Ala Ser Arg Gly Pro Tyr Ala Thr Ser Gln Thr Ser Val Ser Ser Leu  
 20 25 30  
 Val Ala Ser Gly Phe Gly Gly Gly Thr Ile Tyr Tyr Pro Thr Ser Thr  
 35 40 45  
 Ala Asp Gly Thr Phe Gly Ala Val Val Ile Ser Pro Gly Phe Thr Ala  
 50 55 60  
 Tyr Gln Ser Ser Ile Ala Trp Leu Gly Pro Arg Leu Ala Ser Gln Gly  
 65 70 75 80  
 Phe Val Val Phe Thr Ile Asp Thr Asn Thr Thr Leu Asp Gln Pro Asp  
 85 90 95  
 Ser Arg Gly Arg Gln Leu Leu Ser Ala Leu Asp Tyr Leu Thr Gln Arg  
 100 105 110  
 Ser Ser Val Arg Thr Arg Val Asp Ala Thr Arg Leu Gly Val Met Gly  
 115 120 125  
 His Ser Met Gly Gly Gly Gly Ser Leu Glu Ala Ala Lys Ser Arg Thr  
 130 135 140  
 Ser Leu Lys Ala Ala Ile Pro Leu Thr Gly Trp Asn Thr Asp Lys Thr  
 145 150 155 160  
 Trp Pro Glu Leu Arg Thr Pro Thr Leu Val Val Gly Ala Asp Gly Asp  
 165 170 175  
 Thr Val Ala Pro Val Ala Thr His Ser Lys Pro Phe Tyr Glu Ser Leu  
 180 185 190  
 Pro Gly Ser Leu Asp Lys Ala Tyr Leu Glu Leu Arg Gly Ala Ser His  
 195 200 205  
 Phe Thr Pro Asn Thr Ser Asp Thr Thr Ile Ala Lys Tyr Ser Ile Ser  
 210 215 220  
 Trp Leu Lys Arg Phe Ile Asp Ser Asp Thr Arg Tyr Glu Gln Phe Leu  
 225 230 235 240

00229806

Cys Pro Ile Pro Arg Pro Ser Leu Thr Ile Ala Glu Tyr Arg Gly Thr  
245 250 255

Cys Pro His Thr Ser  
260